

SEQ ID NO:1

Tc	MRKSVCPKQKFFFSAPFFFFFCVFPPLISRTGQEKLLFDQKYKIIKGEKKKKKKKNQRANRREHQQRREIMRFXNS	75
Tc	FTCIDMHTEGEAARIVTSGLPHIPGSNMAEKKAYLQENMDYLRRGIMLEPRGHDDMFGAFLFDPIIEGADLGWTF	151
Tc	MDTGGYLNMCCHNSIAAVTRAIVETGIVSVPAKATNPVVLDTFAGLVRGTAHLQSGTESEVSNASTINVPSTLYQ	225
Tc	QDVVVVLPKPYGEVRVDIAFGGNFTAIVPAEQLGIDISVQNLRLQEAGELLRTEINRSVKVQHPQLPHINTVDC	300
Tc	VEIYGPPTNPEANYKNVVIFGNRQADR	
	<div style="border: 1px solid black; display: inline-block; padding: 2px 10px;">SPCGT</div> GTSAKMATLYAKGQLRIGETFVYESILGSLFQGRV--LGEE	371
Tc	RIPGVKVPVTKDAEEGMLVVTAEITGKAFINGFNTMLFDPTDPTKNGFTLKQ*	423

SEQ ID NO:2

Tc	RTGQEKLLFDQKYKIIKGEKKEKKKQNPANRREHQCKREIMRFKKS	75
Tc	FTCIDNHTEGEAAARIVTSGLPHIPGSNMAEKKAYLQENMDYLRRGINLEPRGHDDMFGAFLFDPIEEGADLGWVF	150
Tc	MDTGGYLNMCQHNSIAAVTAAVETGIVSVPAKATNPVVLDTAGLVRGTAHLQSGTISEVSNASIIINVPSFLYQ	225
Tc	QDVVVVLPKPYGEVRVDIAFGGNFFAIVPAEQLGIDISVQNLSRLQEAGELLRTEINRSVKVQHPQLPHINTVDC	300
Tc	VEIYGPTNPEANYKNNVIFGNROADR	
	<div style="border: 1px solid black; padding: 2px; display: inline-block;">SPCGT</div> GTSAKMATLYAKGQLRIGETTFVYESILGSLFQGRV--LGEE	371
Tc	RIPGVKVPVTKDAEEGMLVVTAEITGKAFIMGFNTMLFDPTDPFKNGFTLKQ*	423

SEQ ID NO:3

CC MRKSVCPKQKTTFSATPTTTTTCVFPLIS

SEQUENCE ID NO.4

73
150
225
300
375
423

SEQUENCE ID NO:5

Cs -----MKFSKG 6
 Cs IHAIDSHTMGEPTTRIVVGGIPQINGETNADKKKYLEDNLDYVRTALMHEPRGHNDMFGSIITSSNNKEADFGIIF 31
 Cs MDGGGYLNMCGHGSIGAAVAVETGMVEMVEPVTNIN--MEAPAGLIKAKVMVEN---EKVKEVSITNVPSTLYM 151
 Cs EDAKLEVPSLNKTITFDISFGGSFFAIHAKELGWKVETSQVDVLKKLGIEIROLINENIKVQHPLEHIXTVDL 226
 Cs VEIYDEPSNPEATYKVVVIFGQGVDR SPCGT GTSAKLATLYKKGHLKIDEKEVYESITGTMTKGRV--LEET 297
 Cs KVGEFD-----AIIPEITGGAYITGENHEVIDPEDPLKYGFTV--- 335

SEQ ID NO:6

Pa -----XQR 1
Pa IRIIDSHTGGEPTRLVIGGFPPDLGQGDMAERRRLGERHDANRAACILEPRGSDYLVGALLCAPVCPACAGVIF 79
Pa FNNSGYLGMCGHGTIGLVASLAHLGRIGPGV-----HRIETPVGEVEATLH-----EDGSVSVRNVPAYRYR 140
Pa RQVSVEVPGI-GRVSGDIAGGWNFFLVAGH--GQRLAGDNLDALTANTVAVQQALDD----QDIRGEDGGAICH 219
Pa IELFAD--DPHADSRNFVLCPGKAYDR SPCGT GTSAKLACLAADGKLLPGQPWRQASVIGSQFEGRYEWLDGQ 279
Pa PGGPIVPTIRGRAHVSAEATLLLADDDPTAWGIRR* ----- 314

SEQ ID NO: 7

Splice leader
acceptor sites

Signal Peptide

Polypyrimidine rich region



CCTTTTCTTTTTAAAAACAAAAAAATTCGGGGGGAATATGGAACAGGGTATATGCGTAAAAGTGTCTGTCCCAACAAAAATTTTTT 90
TTTTCCGCCTTCCCATTTTTTTTTTTTTTTTTTTGTGTGTTTCCCTTGATCTCTCGAACAGGGCAGGAAAAGCTTCTGTTTGACCAAAAATAT 120
F S A F P F F F F F F C V F P L I S R T G Q E K L L F D Q K Y 42
AAAATTATTAAGGGCGAGAAAAAGAAAAAGAAAAAAATCAACGAGCAAAACAGGAGAGAACACCAAAAAAGGAAATTATGCGATTT 270
K I I K G E K K E K K K N Q R A N R R E H Q Q K R E I M R F 72
AAGAAATCATTTCACATGCATCGACATGCATACGGAAGGTGAAGCAGCAGGATTGTGACGAGTGGTTTGGCACACATTCCAGGTTTCAAT 360
K K S F T C I D M H T E G E A A R I V T S G L P H I P G S N 102
ATGSCGSAAGAAGAACATACCTGCAGGAAAACATGGATTATTTGAGGCGTGGCATAATGCTGGAACACAGTGGTTCATGATGATATGTTT 430
M A E K K A Y L Q E N M D Y L R R G I M L E P R G H D D M F 132
GGAGCCTTTTTATTTGACCCTATTGAAGAAGGCGCTGACTTGGGCATGGTATTTCATGGATACCGGTGGCTATTTAAATATGTGTGGACAT 520
G A F L F D P I E E G A D L G M V F M D T G G Y L N M C G H 162
AACCTCAATTGCACCGGTTACGGCGGCAGTTGAAACGGGAATTGTGAGCGTGGCGGCGAAGGCAACAAATGTTCCGGTTGTCTTGGACACA 610
N S I A A V T A A V E T G I V S V P A K A T N V P V V L D T 192
CCTGCGGGTTGGTGCGCGGTACGGCACACCTTCAGAGTGGTACTGAGAGTGAGGTTGCAAAATGCGAGTATTATCAATGTACCCCTCATTT 700
P A G L V R G T A H L Q S G T E S E V S N A S I I N V P S F 222
TTGTATCAGCAGGATGTGGTGGTTGTGTGTTGCCAAAGCCCTATGGTGAAGTACGGGTTGATATTGCATTTGGAGGCAATTTTTTCGCCATT 790
L Y Q Q D V V V V L P K P Y G E V R V D I A F G S N F F A I 252
GTTCGCGCGGAGCASTTGGGAATTGATATCTCCGTTCAAAACCTCTCCAGGCTGCAGGAGGCAGGAGAACTTCTGCGTACTGAAATCAAT 880
V P A E Q L G I D I S V Q N L S R L Q E A G E L L R T E I N 282
CGCAGTGTGAAGGTTTCAGCACCCCTCAGCTGCCCATATTAACACTGTGGACTGTGTGAGATATACGGTCCGCCAACGAACCCGGAGGCA 970
R S V K V Q H P Q L P H I N T V D C V E I Y G P P T N P E A 312
AACCTACAAGAACGTTGTGATATTTGGCAATCGCCAGGCGGATCGCTCTCCATGTGGGACAGGCACCAGCGCCAGATGGCAACACTTTAT 1060
N Y K N V V I F G N R Q A D R S P C G T G T S A K M A T L Y 342
GCCAAAGGCCAGGTTTCGCATCGGAGAGACTTTTGTGTACGAGAGCATACTCGGCTCACTTTCAGGGCAGGGTACTTGGGAGGAGGCA 1150
A K G Q L R I G E T F V Y E S I L G S L F Q G R V L G E E R 372
ATACGCGGGGTGAAGGTGCCGGTGACCAAGATGCCGAGGAAGGGATGCTGTTGTAAACGGCAGAAATTAAGTGAAGAGGCTTTTATCATG 1240
I P G V K V P V T K D A E E G M L V V T A E I T G K A F I M 402
GTTTTCAACACCATGCTGTTTGACCCCAACGGATCCGTTTAAGAACGGATTACATTAAGCAGTAGATCTGTTAGACACAGAACTATT 1330
G F N T M L F D P T D P F H N S F T L K Q 423
GGGGAACAGTGCAGACAGGTGCTGCTACGTGAAGGGTATTGAATGAATCGTTTTTTTTTATTTTTTATTTTTTATTAGTGCATT 1420
ATTATTAATTTTTTTTTTTTGTTTTGGGGTTTCAACGGTACCGGTTGGGAGCAGGGAAGCGATAGCGGCGGACAAATTTTTTGTCTTTAT 1510
TTTCATTTTTCATCTTCTACCCAACCCCTTGGTTCCACCGGTTCGGGCGGGGTCTTGTGGTGGAGGAGTCTTAATCCCGCACCTCGG 1600
AGGAATAAACATATTTCAATTTTCATATCTTGAATCAAAAGGCAT 1651

Polyadenylation site

Obs : Underlined the sequenced peptides used to deduce degenerated primers for cloning

(d) Nucleotide sequence and peptide sequence TcPA45

SEQ ID NO.8

TTTCCGCGCTTCCCAATTTTTTTTTTTTTTTTGTGTGTTCCCTTGATCTCTCGAACAGGGCAGGAAAAGCTTCTGTTTGACCAAAATAT 131
F S A F P F F F F F C V F P L I S R T G Q E K L L F D Q K Y 132
AAAATTATTAAGGGCGAGAAAAAGAAAAAATCAACGAGCAAAACAGGAGAGAACACCAACAAAAAAGGGAATTATGCGATTT 133
K I I K G E K K E K K K N Q R A N R R E H Q Q K R E I M R F 134
AAGAAATCATTACATGCATCGACATGCATACGGGAAGGTGAAGCAGCAGGATTGTGACGAGTGGTTTGGCACACATTCCAGGTTTCAAT 135
K K S F T C I D M H T E G E A A R I V T S G L P H I P G S N 136
ATGGCGGAGAGAAAGCATACCTGCAGGAAAACATGGATTATTTGAGGCGTGGCATAATGCTGGAACACAGTGGTCATGATGATATGTTT 137
M A E K K A Y L Q E N M D Y L R R G I M L E P R G H D D M F 138
GGAGCCTTTTATTTGACCCCTATTGAAGAAGGCGCTGACTTGGGCGTGGTATTTCATGGATACCGGTGGCTATTTAAATATGTGTGGACAT 139
G A F L F D P I E E G A D L G M V F M D T G G Y L N M C G H 140
AACTCAATTGCAGCGGTTACGGCGGCGAGTTGAAACGGGAATTGTGAGCGTGCCGGCGAAGGCAAAATGTTCCGGTTGTCTCGGACACA 141
N S I A A V T A A V E T G I V S V P A K A T N V P V V L D T 142
CCTGGCGGGGTTGGTSCGCGGTACGGCACACCTTCAGAGTGGTACTGAGAGTGAAGTGTGAATGCGAGTATTATCAATGTACCCCTCATTT 143
P A G L V R G T A H L Q S G T E S E V S N A S I I N V P S F 144
TTGTATCAGCAGGATGTGCTGTTGTGTGTTGCCAAAGCCCTATGTTGAAGTACGGGTTGATATTGCATTTGGAGGCAATTTTTTCGCCATT 145
L Y Q Q D V V V V L P K P Y G E V R V D I A F G G N F F A I 146
GTTCGCGCGGAGCAGTTGGGAATTGATATCTCCGTTCAAAACCTCTCCAGGCTGCAGGAGGCGAGGAGAACTTCTGCCTACTGAAATCAAT 147
V P A E Q L G I D I S V Q N L S R L Q E A G E L L R T E I N 148
CGCAGTGTGAAGGTTTCAGCACCTTCAGCTGCCCATATTAACACTGTGGACTGTGTTGAGATATACGCTCCGCGCAACGAACCCGAGGCA 149
R S V K V Q H P Q L P H I N T V D C V E I Y G P P T N P E A 150
AACTACAAGAACGTTGTGATATTTGGCAATCGCCAGGCGGATCGCTCTCCATGTGGGACAGGCAACGCGCAAGATGCGAACACTTTAT 151
N Y K N V V I F G N R Q A D R S P C G T G T S A K M A T L Y 152
GCCAAAGGCCAGCTTCGCATCGGAGAGACTTTTGTGTACGAGAGCATACTCGGCTCACTCTTCCAGGGCAGGGTACTTTGGGGAGGAGGCA 153
A K G Q L R I G E T F V Y E S I L G S L F Q G R V L G E E R 154
ATACCGGGGGTGAAGGTGCCGTGACCAAGATGCCGAGGAAAGGATGCTCTTTTAAACGGCAGAAATTACTGGAAGGGCTTTTATCATG 155
I P G V K V P V T K D A E E G N L V V T A E I T G K A F I M 156
GGTTTCAACACCATGCTGTTTGAACCAACGGATCCGTTTAAAGAACGATTACATTAAAGCAGTAGATCTGCTAGAGCACAGAACTATT 157
G F N T M L F D P T D P F K N G F T L K Q 158
GGGGAACAGCTTCGAACAGGTGCTGCTACGTGAAGGGTATTGAATGAATGCTTTTTTTTTTATTTTTTATTTTTTATTTAGTGCATT 159
ATTATTAATTTTTTTTTTTGTTTTGGGGTTTCAACGGTACCGCGTTTGGAGCAGGGAAAGCATAGCGGCGCGGACAATTTTTTGTCTTTTAT 160
TTTCATTTTTCATCTTCTACCCAACCCCTTGGTTCCACCGGTCGCGCGCGGCTTGTGTGGGTGGAGGAGTCTTAAATCCCGCACCTCGG 161
AGGAATAAACATATTTCAATTTTCATATCTTGAATCAAAAGGCAT 162

Polyadenylation site

Obs : Underlined the sequenced peptides used to deduce degenerated primers for cloning

(a) Nucleotide sequence and peptide sequence TcPA45

SEQ ID NO.9

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 F S A F P F F F F F C V F P L I S R T G Q E K L L F D Q K Y 72
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 K I I K G E K K E K K K N Q R A N R R E H Q Q K R E I M R F 102
 AAGAAATCATTACATGCATCGACATGCATACGGAAGGTGAAGCAGCAGCGATTGTGACGASTGGTTTGCCACACATTCCAGSTTCGAA 430
 K K S F T C I D M H T E G E A A R I V T S G L P H I P G S N 132
 ATGGCGGAGAAAGCATACCTGCAGGAAACATGGATTATTTGAGGCGTGGCATAATGCTGGAACACGTTGGTCATGATGATATGTT 520
 M A E K K A Y L Q E N M D Y L R R G I M L E P R G H D D M F 162
 GGAGCCTTTTATTTGACCCTATTGAAGAAGGCGCTGACTTGGGCGATGGTATTTCATGGATACCGGTGGCTATTTAAATATGTGTGGACAT 610
 G A F L F D P I E E G A D L G M V F M D T G G Y L N M C G H 192
 AACTCAATTGCAGCGTTACGGCGGCAGTTGAAACGGGAATTGTGAGCGTGCCGGCGAAGGCAAAATGTTCCGGTTGTCTCTGGACACA 700
 N S I A A V T A A V E T G I V S V P A K A T N V P Y V L D T 232
 CCGTGGGGGTTGGTGGCGGTACGGCACACCTTCAGAGTGGTACTGASAGTGAGGTGTCAAATGCGAGTATTATCAATGTACCCCTCAT 790
 P A G L V R G T A H L Q S G T E S E V S N A S I I N V P S F 252
 TTGTATCAGCAGGATGTGGTGGTTGTGTGGCCAAAGCCCTATGGTGAATACGGGTTGATATTGCATTGGAGGCAATTTTTCGCCATT 880
 L Y Q Q D V V V L P K P Y G E V R V D I A F G S N F F A I 282
 GTTCCCGCGGAGCAGTTGGGAATTGATATCTCCGTTCAAAACCTCTCCAGGCTGCAGGAGGAGGAGAACTTCTGCTACTGAAATCAAT 970
 V P A E Q L G I D I S V Q N L S R L Q E A G E L L R T E I N 312
 CGCAGTGTGAAGGTTACAGCACCCCTCAGCTGCCCCATATTAACACTGTGGACTGTGTGAGATATACGGTCCGCGCAACGAACCCGGAGGCA 1060
 R S V K V Q H P Q L P H I N T V D C V E I Y G P P T N P E A 342
 AACTACAAGAACGTTGTGATATTTGGCAATCGCCAGGCGGATCGCTCTCCATGTGGGACAGGCACCGCCCAAGATGGCAACACTTTAT 1150
 N Y K N V V I F G N R Q A D R S P C G T G T S A K M A T L Y 372
 GCCAAAGGCGCAGCTTCGCATCGGAGAGACTTTTGTGTACGAGAGCATACTCGGCTCACTCTTCCAGGGCAGGGTACTTGGGGAGGAGCGA 1240
 A K G Q L R I G E T F V Y E S I L G S L F Q G R V L G E E R 402
 ATACCGGGGGTGAAGGTGCCGGTGACCAAGATGCCGAGGAAGGGATGCTCGTTGTAAACGGCAGAAATTAATGGAAGGCTTTTATCATG 1330
 I P G V K V P V T K D A E E G M L V V T A E I T G K A F I M 423
 GGTTTCAACACCATGTCTTTGACCAACGGATCCGTTTAAAGACGGATTACATTAAGCAATAGATCTGGTAGAGCACAGAACTATT 1420
 G F N T M L F D P T D P F K N G F T L K Q 1510
 GGGGAACACGTGCGAACAGGTGCTGCTACGTGAAGGGTATTGAATGAATCGTTTTTTTTTATTTTTATTTTTATTTTATTAGTGCATT 1600
 ATTATTAATTTTTTTTTTTGTTTTGGGTTTTCAACGGTACCGCGTTGGAGCAGGGAAGCGATAGCGGCCGACAAATTTTTTCTTTTTAT 1651
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 AGGAATAAACATATTTCAATTTTCATATCTTGAATCAAAAGGCAT

Polyadenilation site

Obs : Underlined the sequenced peptides used to deduce degenerated primers for cloning

(b) Nucleotide sequence and peptide sequence TcPA45

SEQUENCE ID NO:10

Signal peptide

1
M R K S V C P K Q K F F

Nucleotide sequence of signal sequence TcPA45

SEQUENCE ID NO:11

ATGCGATT<

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SEQ ID NO : 12

5'TTICCRAADATIACIACGTT 3'

SEQ ID NO : 13

5' ATHGCITTYGGIGGIAAYTTT 3'

SEQ ID NO : 14

5' TTICCRAADATIACIACGTT 3'

SEQ ID NO : 15

5' CTCTCCCATGGGGCAGGAAAAGCTTCTG 3'

SEQ ID NO : 16

5' CTGAGCTCGACCAGATCTATCTGC 3'

SEQ ID NO : 17

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61 aaaagtgtct gtcccaaaaca aaaatttttt tttccggcct tcccatcttt tttttttttt
121 tgtgtgtttc ccttgatctt tcgaacaggg caggaaaaagc ttctgtttga ccaaaaaata
181 aaaattatta agggcgagaa aaaaagaaaag aaaaaaaatc aacgagcaaa caggagagaa
241 caccaacaaa aaagggaat tatgcgattt aagaaatcat tcacatgcat cgaatgcat
301 acggaagggtc aagcagcacg gattgtgacg agtgggtttc cacacattcc aggttcgaat
361 atggcgagaa agaaaacata cctgcaggaa aacatggatt attcgaggcg tggcataatg
421 ctggaaccac gtggatcatga tgatattgtt ggagcccttt tattcgaccc tattgaaqaa
481 ggcgctgact tgggcacgtt attcatggat accgggtggc atttaaaat gtgtggaat
541 aactcaattg cagcgggtac ggccggcagt gaaacgggaa ttgtgagcgt gccggcgaaq
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661 cttcagagtg gtactgagag tgagggtgtca aatgcgagta ttatcaatgt accctcaatt
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901 cgcagtgtga aggttcagca ccttcagctg ccccatatta acactgttga ctgtgttga
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1561 tgggttccac ggttcggggg ggggtcttgt ggtggaggaq tcccaaatcc cggacccctg
1621 aggaataaac atatttcaat ttcataattt tgaatcaaaa ggaat
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SEQ ID NO : 18

WIHK

SEQ ID NO : 19

IVTGSLPDISG

SEQ ID NO : 20

ATNVPVVLDTPAGLVR

SEQ ID NO : 21

VDIAFGGNE

SEQ ID NO : 22

NVVIFGNR

SEQ ID NO : 23

MATLYAK

SEQ ID NO : 24

5' TCCGTATCCATGTCGATGC 3'

SEQ ID NO : 25

5' TATTATTGATACAGTTTCTG 3'

SEQ ID NO : 26

5' CTCTCCCATGGGGCAGGAAAAGCTTCTG 3'